

**EP 863145**

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Silylated tris-dihydroxyphenyl-s-triazine ultraviolet absorber - prepared by introducing alkyl and alkoxy silyl and organo-siloxane ether into phenyl ring, in light-protection cosmetic for skin or hair

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Patent Family:

| Patent No   | Kind | Date     | Applicat No | Kind | Date     | Week     |
|-------------|------|----------|-------------|------|----------|----------|
| EP 863145   | A2   | 19980909 | EP 98103244 | A    | 19980225 | 199840 B |
| NO 9800841  | A    | 19980904 | NO 98841    | A    | 19980227 | 199845   |
| AU 9855419  | A    | 19980903 | AU 9855419  | A    | 19980220 | 199847   |
| JP 10251273 | A    | 19980922 | JP 9844921  | A    | 19980226 | 199848   |
| CA 2230397  | A    | 19980903 | CA 2230397  | A    | 19980224 | 199904   |
| US 5976512  | A    | 19991102 | US 9834616  | A    | 19980217 | 199953   |
| KR 98079789 | A    | 19981125 | KR 986681   | A    | 19980228 | 200004   |
| MX 9801488  | A1   | 19981101 | MX 981488   | A    | 19980224 | 200022   |
| BR 9800799  | A    | 20000314 | BR 98799    | A    | 19980302 | 200027   |
| CN 1192441  | A    | 19980909 | CN 98103892 | A    | 19980219 | 200040   |
| AU 735412   | B    | 20010705 | AU 9855419  | A    | 19980220 | 200143   |
| NO 315046   | B1   | 20030630 | NO 98841    | A    | 19980227 | 200344   |
| TW 513417   | A    | 20021211 | TW 98103078 | A    | 19980303 | 200353   |
| EP 863145   | B1   | 20031001 | EP 98103244 | A    | 19980225 | 200365   |
| DE 59809758 | G    | 20031106 | DE 98509758 | A    | 19980225 | 200374   |
|             |      |          | EP 98103244 | A    | 19980225 |          |
| ES 2206771  | T3   | 20040516 | EP 98103244 | A    | 19980225 | 200434   |
| CN 1091771  | C    | 20021002 | CN 98103892 | A    | 19980219 | 200525   |

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Patent Details:

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AU 9855419 A C07F-007/10

JP 10251273 A 16 C07F-007/10

CA 2230397 A C07F-007/10

US 5976512 A A61K-007/42

KR 98079789 A C07D-251/24

MX 9801488 A1 A61K-007/42

BR 9800799 A C07F-007/08

CN 1192441 A C07F-007/18

AU 735412 B C07F-007/10

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Abstract (Basic): EP 863145 A

Alkyl-silyl, alkoxy-silyl and organosiloxane ethers of  
2,4,6-tris-(2',4'-dihydroxy-phenyl)-1,3,5-triazines of formula (I) are  
new;

formula

X = S-Z- and one X may be hydrogen or S;

Z = saturated or mono- or poly-unsaturated 3-12 C alkyl spacer  
group; and

S = 1-18 silicon tri-(3-15 C alkyl)-silyl or tri-(3-15 C  
alkoxy)-silyl oligo-siloxane group.

USE - Used as light-protection agents and n light-protection  
compositions, optionally in conjunction with other ultra-violet (UV)  
filter(s) (all claimed). Useful in sun protection cosmetics, eg.  
emulsions, for the skin or hair.

ADVANTAGE - Symmetrical

2,4,6-tris-(2',4'-dihydroxy-phenyl)-1,3,5-triazines are very efficient  
for protecting textiles against UV-A and UV-B light but have poor  
solubility in almost all solvents, making them unsuitable for use eg.  
for cosmetic applications. 2-Hydroxyphenyl-s-triazines with groups  
containing Si have been used as light stabilisers for organic polymers,  
especially against UV-B light. (I) provide good protection from light,  
are readily soluble in organic solvents, especially those used in  
cosmetics, and have good photostability.

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Title Terms: SILYLATED; TRI; DI; HYDROXYPHENYL; TRIAZINE; ULTRAVIOLET;  
ABSORB; PREPARATION; INTRODUCING; ALKYL; ALKOXY; SILYL; ORGANO; SILOXANE;  
ETHER; PHENYL; RING; LIGHT; PROTECT; COSMETIC; SKIN; HAIR

Derwent Class: A26; A96; D21; E11; P42

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C07F-007/10; C07F-007/18

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